

Claims

1. A method of providing information associated with location determination apparatus of a mobile system, said method comprising:

providing quality information of measurements associated with location determination by at least two measurement devices;

storing quality information of measurements associated with location determination by at least two measurement devices and identity information associated with the at least two measurement devices; and

providing selection information for selection of measurement devices based upon the stored quality and identity information.

2. The method of claim 1, wherein the step of providing selection information comprises self-learning based upon historical quality information associated with measurement devices.

3. The method of claim 1, wherein the step of providing selection information comprises ranking possible measurement devices based upon historical quality information associated with measurement devices.

4. The method of claim 3, comprising the further step of selecting proper measurement devices based on the ranking.

5. The method of claim 1, comprising storing information identifying at least one cell of a mobile system.

6. A method of providing location information associated with a user equipment of a mobile system, said method comprising:

triggering a location process;

obtaining selection information for selection of at least one measurement device, the selection information including information of measurement devices that have historically provided measurement information that satisfies a predefined

criteria;

selecting at least one measurement device; and

locating the user equipment based on measurement information from the selected at least one measurement device.

7. A method of determining a position of a mobile user equipment, said method comprising:

storing historical data of various measurements in a mobile system;

selecting at least one measurement device based upon the historical data;

self-learning based upon selected historical data associated with measurement devices.

8. The method of determining a position of a mobile user equipment as claimed in claim 7, wherein the step of self-learning comprises maintaining a self-learning table wherein look-up parameters are matched with information regarding the success of measurements by measurement devices obtained after a location attempt.

9. The method of determining a position of a mobile user equipment as claimed in claim 8, wherein the step of maintaining creation a self-learning table comprises maintaining statistical historical information about which measurement devices were able to receive transmissions from the mobile user equipment when at least one look-up parameter was observed.

10. The method of claim 8, comprising matching cell identity and timing advance parameters and/or a location estimate with information regarding the success of measurements by measurement devices obtained after a location attempt.

11. The method of claim 8, comprising matching look-up parameters with information regarding the success of measurements by location measurement units obtained after an uplink time difference of arrival location attempt.

12. A location system for locating a mobile user equipment, comprising:

at least two measurement devices configured to provide measurement data for location determination;

a quality controller configured to provide quality information of measurements by the at least two measurement devices;

a storage configured to store quality information of measurements by the at least two measurement devices; and

a selection controller configured to provide selection information for selection of measurement devices based upon quality information that is stored in the storage.

13. The location system of claim 12, wherein the quality controller, the storage and the selection controller are provided in a location service element of a mobile system.

14. The location system of claim 12, comprising a location service element configured to select at least one measurement device based upon selection information, the selection information including information of measurement devices that have historically provided measurement information that satisfies a predefined criteria, and to locate a user equipment based on measurement information from selected at least one measurement device.

15. The location system of claim 12, wherein the selection controller is provided in a user equipment.

16. A network element for a mobile system comprising a processor for processing quality information associated with the quality of location measurements by a plurality of measurement devices and for providing selection information for selection of at least one measurement device based upon the quality information.

17. The network element of claim 16, wherein the processor is configured to provide deciding means for deciding which location measurement units can be used to locate a particular mobile user equipment.

18. The network element of claim 16, comprising a serving mobile location center.

19. The network element of claim 16, comprising a separate network element connected to a serving mobile location center.

20. A user equipment for a mobile system, the user equipment comprising a processor for processing quality information associated with the quality of location measurements by a plurality of measurement devices and for providing selection information for selection of at least one measurement device based upon the quality information.

21. A computer program comprising program code means adapted to perform at least one of steps of providing quality information of location measurements by a plurality of measurement devices and selection information for selection of measurement devices based upon the quality information when the program is run on a computer.